



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D119-646-043
Job Sheet 177744



Part No: D119-646-043 **Job Qty:** 1 ea

Part Name: AW119 Replacement Skidtube with Wearpads, Float Compatible - Fits LH or RH



Part Weight: 0 lbs **Status:** Scheduled **Priority:** Medium

Job Created: 5/17/18 **Job Tracking No:**

Due Date: 6/25/18 **Created By:** Michelle Gagnon-Donovan

Type: Stock **Description:**

Note: DWG IIN-D119-646 REV D, D3905-041 REV E SHEETS 1,2,5,6, 8-14 IPP RevA: New Issue DD verified by:EC
IPP revB 10.02.22 per PAR 09-043 EC verified by:DD IPP REVC 12.11.05 (DEOD3905-B-1)(ecn 12-675)-DD
verf:JLM IPP REV:D 13.03.20 per chg003 ECN13-534 DD verf:JLM IPP REV:E 15.01.19 AS PER ECN-14-628
DD verf:JLM IPP REV:F 16.11.02 chg as per D3905 revD(DEO) DD verf:JLM IPP REV:G 17.05.23 as per dwg
D3905 rev.e DD verf:JFS

Ship Via:

Bill of Materials



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
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Email: sales@dartaero.com
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Container No: S083239



Part: D119-646-043
Job No: 177744
Serial No/Batch: S083239

Revision:
Inspector:
Exp Date:
Instructions:

Date: 05/22/18

Job Routing									
Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	1 Ea		6/25/18	0.00	0.00	Start Up Skid tubes-1		
110	Skid tubes	1 pcs		6/25/18	0.00	3.68	Skid tubes-1		
120	HandFinish	1 pcs		6/25/18	0.00	1.56	HandFinish1		
130	QC	1 pcs		6/25/18	0.00	0.00	QC7-1		
140	QC	1 pcs		6/25/18	0.00	0.00	QC5		
170	Skid tubes	1 pcs		6/25/18	0.00	3.68	Skid tubes-1		
180	QC	1 pcs		6/25/18	0.00	0.00	QC5		
190	Skid tubes	1 pcs		6/25/18	0.00	3.68	Skid tubes-1		
200	QC	1 pcs		6/25/18	0.00	0.00	QC5		
210	QC	1 pcs		6/25/18	0.00	0.00	QC10		
220	HandFinish	1 pcs		6/25/18	0.00	1.56	HandFinish2		
230	SprayPaint	1 pcs		6/25/18	0.00	0.42	Spray Paint		
235	Outsource	1 pcs		6/25/18			ATE003-VC		
240	QC	1 pcs		6/25/18	0.00	0.00	QC14		
250	HandFinish	1 pcs		6/25/18	0.00	1.56	HandFinish4		
260	QC	1 pcs		6/25/18	0.00	0.00	QC5		
270	HandFinish	1 pcs		6/25/18	0.00	1.56	HandFinish4		
280	QC	1 pcs		6/25/18	0.00	0.00	QC5		
285	HandFinish	1 pcs		6/25/18	0.00	1.56	HandFinish3		
286	QC	1 pcs		6/25/18	0.00	0.00	QC5		
289	DC	1 pcs		6/25/18	0.00	0.00	DC		
295	Packaging	1 pcs		6/25/18	0.00	0.00	Packaging3-1		
300	QC21-FG	1 Ea		6/25/18	0.00	0.00	QC21		

Part Op 110 Bend FWD end of tube using Bender 1 and bend prog D3905 FWD per dwg D3905 (FOLIO -04) 2- Cut FWD
 Descriptions: end of tube as per dwg D3905 3- Cut AFT end of tube as per dwg D3905 4- Buff out marks left from bending 5 -Install
 drill jig DT9480 drill X-bolt spacer pilot holes using 3/16" drill first side only. 6- 2nd side, locating from first saddle holes
 use DT9861 A/B to drill 2nd side fwd saddle holes. 7- 2nd side locating from fwd saddle drill remaining crossbolt spacer
 holes usin DT9480 8- Drill FWD cap holes using DT8215.
 170 - Open FWD Saddle holes to finish size as per dwg and deburr 1-Bond web in place as per Dwg D3905 & QSI 015.
 (at 42.95" ref.) A/R Sikaflex-291 422013 Sikaflex expire date: 1908-06 Start: _____ Time: _____
 Finish: _____ Time: _____ ***** (Adhere for 12 hours) ***** 2-Bend AFT end of tube using
 CNC Bender 1 and bend prog. D3905 AFT as per dwg D3905. Install drop pins in crossbolt spacer holes to maintain web
 position. 3- Drill 1.87" and 3.74 holes using DT10045 A&B locate from FWD saddle hole. (verify measurement) as per
 dwg. 4- Drill Tow ring hole using DT10047. Open to finished size. 5- Open FWD & AFT cap holes per dwg. Countersink
 Fwd cap only as per detail "C" 6-Open crossbolt spacer holes to finished size. Drill most Fwd wearplate holes using
 DT9816 (15.21") 7-Deburr crossbolt spacer holes as per Dwg D3905 and blow out chips from inside the tube 8- Drill holes
 for wearpads using DT9813 & D
 190 - NOTE:TACK IN 2 MOST FWD X-BOLT SPACERS AND TEST FIT FWD GROUND HANDELING FIXTURE,IF
 FIXTURE FITS WELL THEN PROCEED. FIXTURE DT10091. 1-Insert crossbolt spacers. Weld as per QSI 004 and Dwg.
 D3905. Remember to back drill each hole before welding the other side. Use aluminum rod A/R Aluminum Rod
138834 2-Grind cross bolt welds flush as per Dwg D3905. Ensure no pin hole. 3-Counterbore 5/16" x 0.750"
 deep as per Dwg D3905. 4- Deburr & Scribe batch # on Aft end of tube. 5- Pick D2855-5 cap and transfer drill missing
 hole. Deburr and identify cap with skidtube batch#.
 200 - TEST FIT USING FIXTURE DT10091.
 220 - Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.
 230 - *****AS PER DETAIL "F" NOTE 8, SHEET 8 MASK THIS AREA, DO NOT APPLY PRIMER OR PAINT***** PRIME
 AS PER DWG AND QSI 005 4.2 BATCH: 138862 PAINT WHITE AS PER DWG AND QSI 005 4.2
 BATCH: 138875
 250 - 1-Install inserts as per Dwg D3905.
 270 - 1-Install wearpads, gaskets and wearplates as per Dwg D3905. Put sikaflex in insert before installing bolts and
 washers A/R Sikaflex-240/-291 11138787 Sikaflex expire date: 1811 2-assemble o'ring to plug as per
 dwg D3492 and apply o'ring lube A/R 55-o'ring lube batch: 11138827 3 -Inspect for foreign objects as per QSI
 024 4 -Install D2855-3 Cap and seal with Sikaflex. Clean excess adhesive. A/R Sikaflex-240/-291 1911
 Sikaflex expire date: 11138787 5 -Install insert in D2855- Cap. Install cap and seal with Sikaflex. Clean excess
 adhesive. A/R Sikaflex-240/-291 11138787 Sikaflex expire date: 1811 6- Install (2)D5101-041 and
 (1)D5101-047 as per dwg by using DT10117
 289 - Photocopy bluefile & type labels per PPP D119-646-043 CHG 005

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
D2500-1-190	Ext'n -1" Beam Tube 4"	1 Ea (1 ea)	90-Start up Operation	5081201
D3885-3	Float Web	1 Ea (1 ea)	170-Skidtubes	500622
D2579	Crossbolt Spacer	2 Ea (2 ea)	190-Skidtubes	5051552
D2855-5	Cap	1 Ea (1 ea)	190-Skidtubes	5006094
D3681-1	Spacer	8 Ea (8 ea)	190-Skidtubes	5022580
D3903-1	Spacer	12 Ea (12 ea)	190-Skidtubes	5084655
ALS4-1032-130	Rivnut	42 Ea (42 ea)	250-HandFinish	5067274
D3683-3	Insert	12 Ea (12 ea)	250-HandFinish	N/A
ALS4-1032-225	Rivnut	1 Ea (1 ea)	270-HandFinish	5058139
AN3C4A	Bolt	6 Ea (6 ea)	270-HandFinish	5068412
AN3C5A	Bolt	38 Ea (38 ea)	270-HandFinish	5057153
AN4C46A	Bolt	3 Ea (3 ea)	270-HandFinish	5006302
D2855-3	Cap	1 Ea (1 ea)	270-HandFinish	5066002
D3492-5	Plug	16 Ea (16 ea)	270-HandFinish	5060337
D3672-1	Washer, Phenolic	2 Ea (2 ea)	270-HandFinish	5050074
D3672-3	Washer, Phenolic	12 Ea (12 ea)	270-HandFinish	N/A
D3847-1	Wearpad 5054292	8 Ea (8 ea)	270-HandFinish	(X) 5057444
D3847-11	Wearpad	1 Ea (1 ea)	270-HandFinish	5026852
D5101-041	Crossbolt Spacer Assembly	2 Ea (2 ea)	270-HandFinish	F159549
D5101-047	Crossbolt Spacer Assembly	1 Ea (1 ea)	270-HandFinish	5072725
D5101-3	Insert	6 Ea (6 ea)	270-HandFinish	F158934
D5101-5	Insert	6 Ea (6 ea)	270-HandFinish	F158796
MS21043-4	Nut	3 Ea (3 ea)	270-HandFinish	F1113796
MS24694-C52	Screw	2 Ea (2 ea)	270-HandFinish	N/A
MS27039C4-08	Screw	12 Ea (12 ea)	270-HandFinish	5062291
NAS1149C0332R	Washer	44 Ea (44 ea)	270-HandFinish	5056497 total
NAS1149C0463R	Washer FM127306-15	12 Ea (12 ea)	270-HandFinish	5057657X
NAS1611-005	O-Ring	16 Ea (16 ea)	270-HandFinish	5056493V

004197

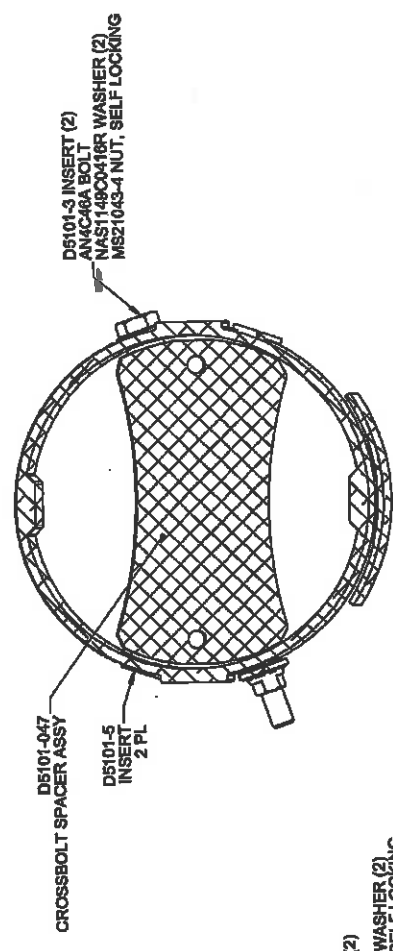
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Job Allocations

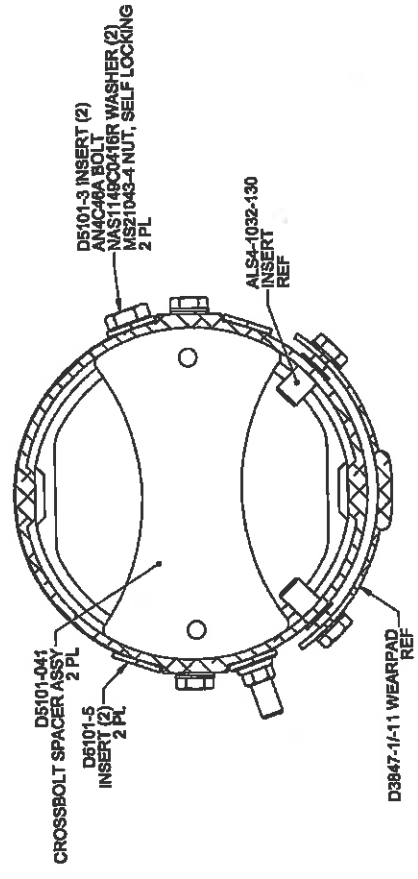
Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	D2500-1-190	1	45	0
170-Skidtubes	D3885-3	1	4	0
190-Skidtubes	D2579	2	133	0
	D2855-5	1	85	0
	D3681-1	8	93	0
	D3903-1	12	43	0
250-HandFinish	ALS4-1032-130	42	14,156	0
	D3683-3	12	219	0
270-HandFinish	ALS4-1032-225	1	5,405	0
	AN3C4A	6	2,369	0
	AN3C5A	38	1,802	0
	AN4C46A	3	102	0
	D2855-3	1	30	0
	D3492-5	16	234	0
	D3672-1	2	1,059	0
	X D3672-3	12	1,164	0
	D3847-1	8	58	0
	D3847-11	1	26	0
	D5101-041	2	14	0
	D5101-047	1	5	0
	D5101-3	6	56	0
	D5101-5	6	42	0
	MS21043-4	3	965	0
	MS24694-C52	2	184	0
	MS27039C4-08	12	226	0
	NAS1149C0332R	44	7,418	0
	NAS1149C0463R	12	260	0
	NAS1611-005	16	663	0

Part Specifications
Specifications could not be found.

Plex 5/17/18 11:56 AM Dart.Gagnon.Michelle



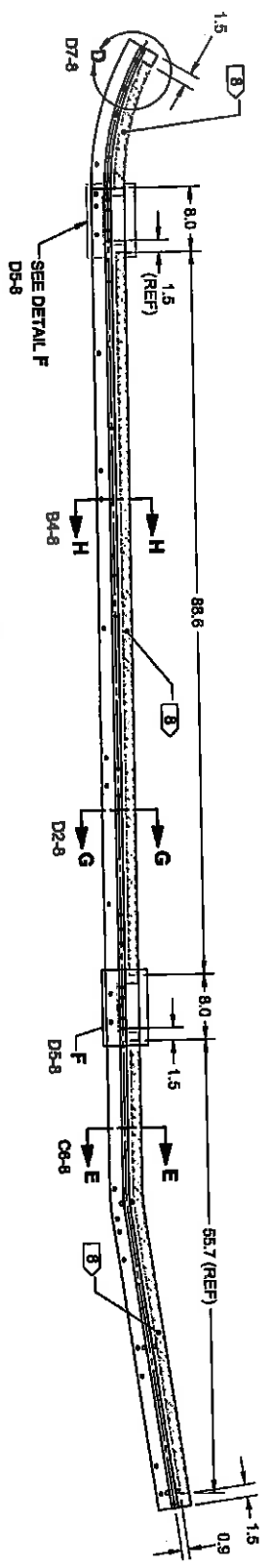
SECTION B-B
SCALE 12X



SECTION A-A
SCALE: 12X

DESIGN	AJS	DART AEROSPACE USA, INC.	
DRAWN	WK	EUGENE, OR	
CHECKED	VS	DRAWING NO.	REV. E
MFG. APPR.	DD	D3805	SHEET 5 OF 14
APPROVED	HS	SCALE	
DE APPR.	DS	TITLE	
DATE	17.03.13	A119 FLOAT SKIDTUBE ASSY NTS	

ITEM	QTY	PIN	DESCRIPTION
	X	D3905-051	SKIDTUBE SUB ASSY
1	2	D2679	CROSS BOLT SPACER
2	8	D3681-1	SPACER
3	12	D3603-1	SPACER
4	1	D3905-081	SKIDTUBE SUB ASSEMBLY
5	42	AL54-1032-130	INSERT



D3905-051 SKIDTUBE SUB ASSEMBLY

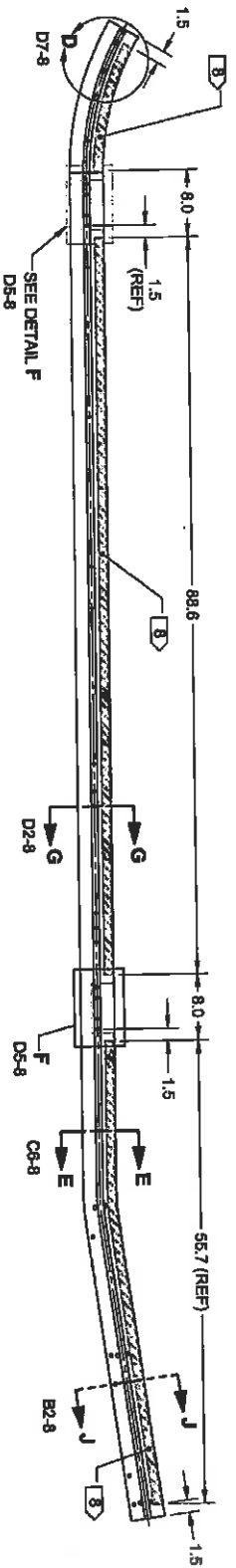
- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: PRIME (REF 4.2.1.3.3) AND PAINT WHITE PER DART CSI 005 4.2.2.4
 - 3) TOLERANCES: PER DART CSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY AT NEXT ASSEMBLY
 - 7) WEIGHT: N/A
 - 8) AFTER APPLICATION OF FINISH, PAINT TOP SURFACE OF SKIDTUBE WITH MIL-W-5044 ANTI-SKID PAINT (WING WALK) AS INDICATED TO 0.50" ABOVE LOCATION RIDGE, PER CSI 005 SECTION 4.4

RELEASED
2017-05-08
APPROVED

DESIGN	DATE	BY	CHK	APP	DATE	BY	CHK	APP
DART AEROSPACE USA, INC.	17.03.13	VS	VS	VS	17.03.13	VS	VS	VS
D3905		VS	VS	VS		VS	VS	VS
A119 FLOAT SKIDTUBE ASSY		VS	VS	VS		VS	VS	VS
NTS		VS	VS	VS		VS	VS	VS

ITEM	QTY	P/N	DESCRIPTION
	4083		SKIDTUBE SUB ASSY
X		D3905-083	
1	2	D2579	CROSS BOLT SPACER
2	8	D3884-1	SPACER
3	12	D3903-1	SPACER
4	1	D3905-083	SKIDTUBE SUB ASSEMBLY
5	10	AL84-1032-130	INSERT

A



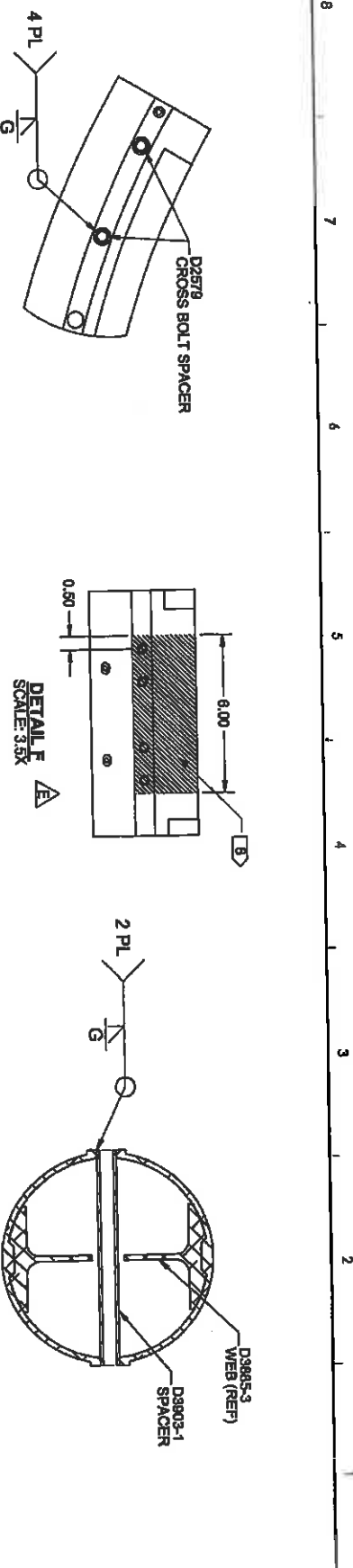
A D3905-053 SKIDTUBE SUB ASSEMBLY

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: PRIME (REF 4.2.1.3.3) AND PAINT WHITE PER DART OSI 005 4.2.2.4
 - 3) TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: N/A
 - 6) IDENTIFICATION: IDENTIFY AT NEXT ASSEMBLY
 - 7) WEIGHT: N/A
 - 8) AFTER APPLICATION OF FINISH, PAINT TOP SURFACE OF SKIDTUBE WITH MIL-W-5044 ANTI-SKID PAINT (WING WALK) AS INDICATED TO 0.50 ABOVE LOCATION RIDGE, PER OSI 005 SECTION 4.4

RELEASED
2017-05-08
APPROVED

DESIGN	AUS	DART AEROSPACE USA, INC.
DRAWN	WKC	
CHECKED	VS	
MFG. APPL.	DD	D3905
APPROVED	HS	
DE APFR	DE	
DATE	17.03.13	

COMPANY: DART AEROSPACE USA, INC.
DRAWING NO.: D3905
SHEET 1 OF 1
SCALE: NTS



DETAIL D
SCALE: 3.5X

DETAIL F
SCALE: 3.5X

SECTION G-G
SCALE: 1X

SECTION E-E
SCALE: 7X

SECTION H-H
SCALE: 7X

SECTION J-J
SCALE: 7X

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: PRIME (REF 4.2.1.3.3) AND PAINT WHITE PER DART OSI 005 4.2.2.4
 - 3) TOLERANCES: PER DART OSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY AT FINAL ASSEMBLY
 - 7) WEIGHT: N/A
 - 8) MASK THIS AREA AND DO NOT APPLY PRIMER OR PAINT
 - 9) AFTER DRILLING AND BENDING ASSEMBLY, PERFORM THE FOLLOWING FOR THE SECTION G-G Ø0.375 HOLES ONLY:
 - a) CHAMFER HOLES Ø0.275 x 45°
 - b) INSERT D3803-1 SPACER
 - c) WELD INTO PLACE AND GRIND FLUSH
 - d) GROUND TO Ø0.375 x 0.75 DEEP
 - 10) AFTER DRILLING AND BENDING ASSEMBLY, PERFORM THE FOLLOWING FOR THE SECTION E-E Ø0.313 HOLES ONLY:
 - a) CHAMFER HOLES Ø0.275 x 45°
 - b) INSERT D3803-1 SPACER
 - c) WELD INTO PLACE AND GRIND FLUSH
 - d) GROUND TO Ø0.313 x 0.75 DEEP
 - 11) WELD PER DART OSI 004

RELEASED
2017-05-08

APPROVED

DESIGN	AJS	WKS	VS	DD	HS	DR	DATE
DRAWN							
CHECKED							
MRG. APPR							
APPROVED							
DATE	17.03.13						

DESIGN	AJS	WKS	VS	DD	HS	DR	DATE
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APPROVED							
DATE	17.03.13						

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APPROVED							
DATE	17.03.13						

DART AEROSPACE USA, INC.

REV. E

SHEET 8 OF 14

SCALE

NTS

DATE

17.03.13

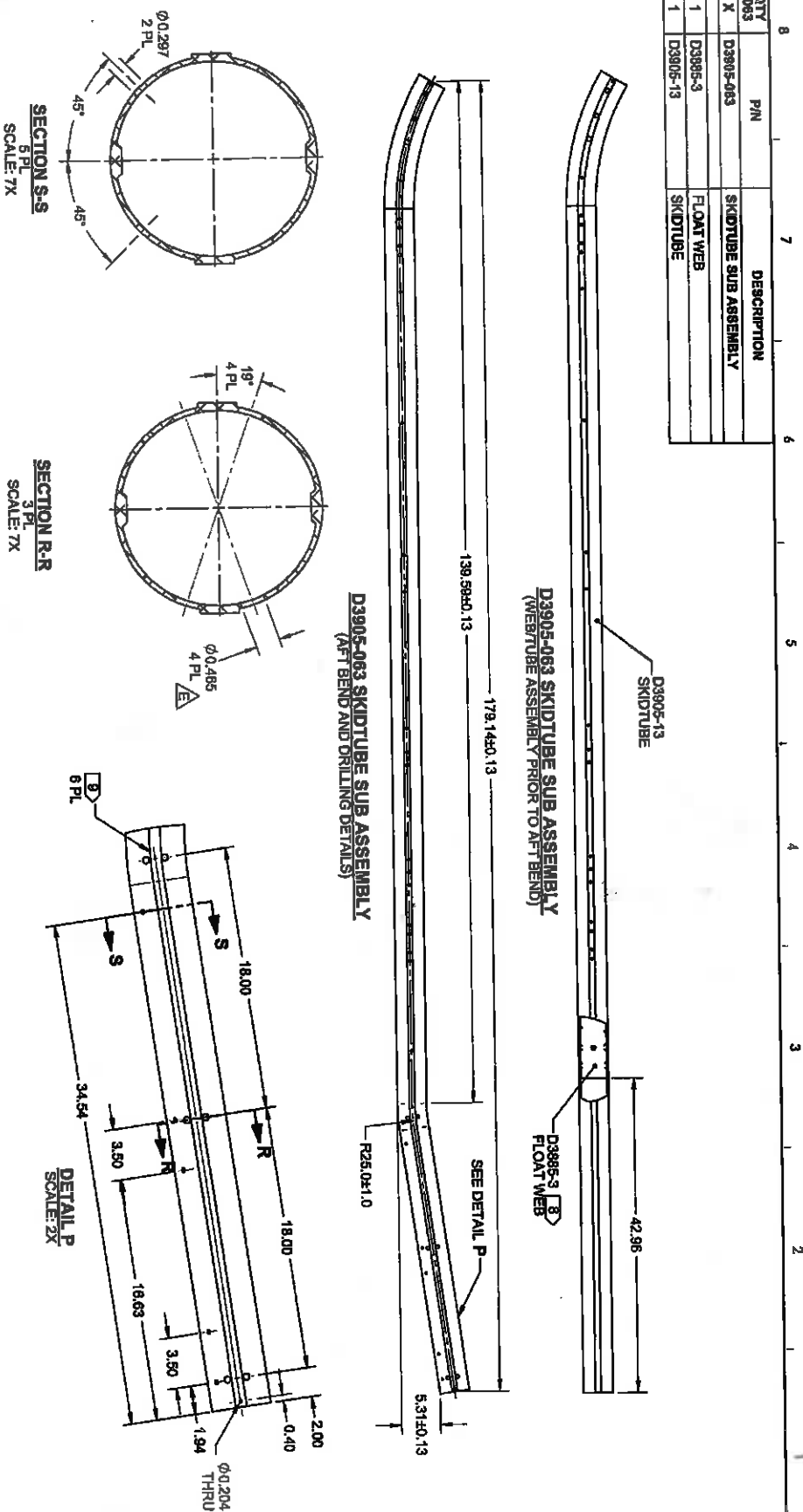
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ITEM	QTY	P/N	DESCRIPTION
	063		
X		D3805-083	SKIDTUBE SUB ASSEMBLY
1		D3885-3	SKIDTUBE
1		D3905-13	SKIDTUBE
2			SKIDTUBE



- NOTES:
1) MATERIAL: N/A
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTITY AT FINAL ASSEMBLY
7) WEIGHT: N/A
8) INSERT D508-3 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH SKIDTUBE 241H-231 ADHESIVE PER DART QSI 015 AFTER BENDING. ENSURE HOLES LINE-UP
9) RELIEVE RIDGE FLAT WITH SKIDTUBE FOR INSERT CLEARANCE, MAX 0.130 INTO RIDGE

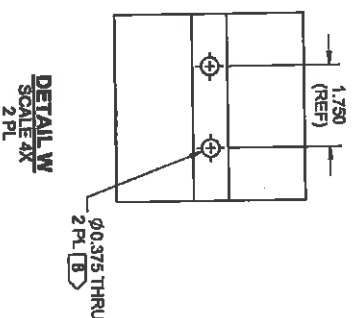
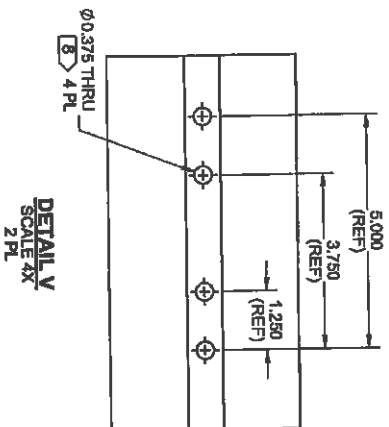
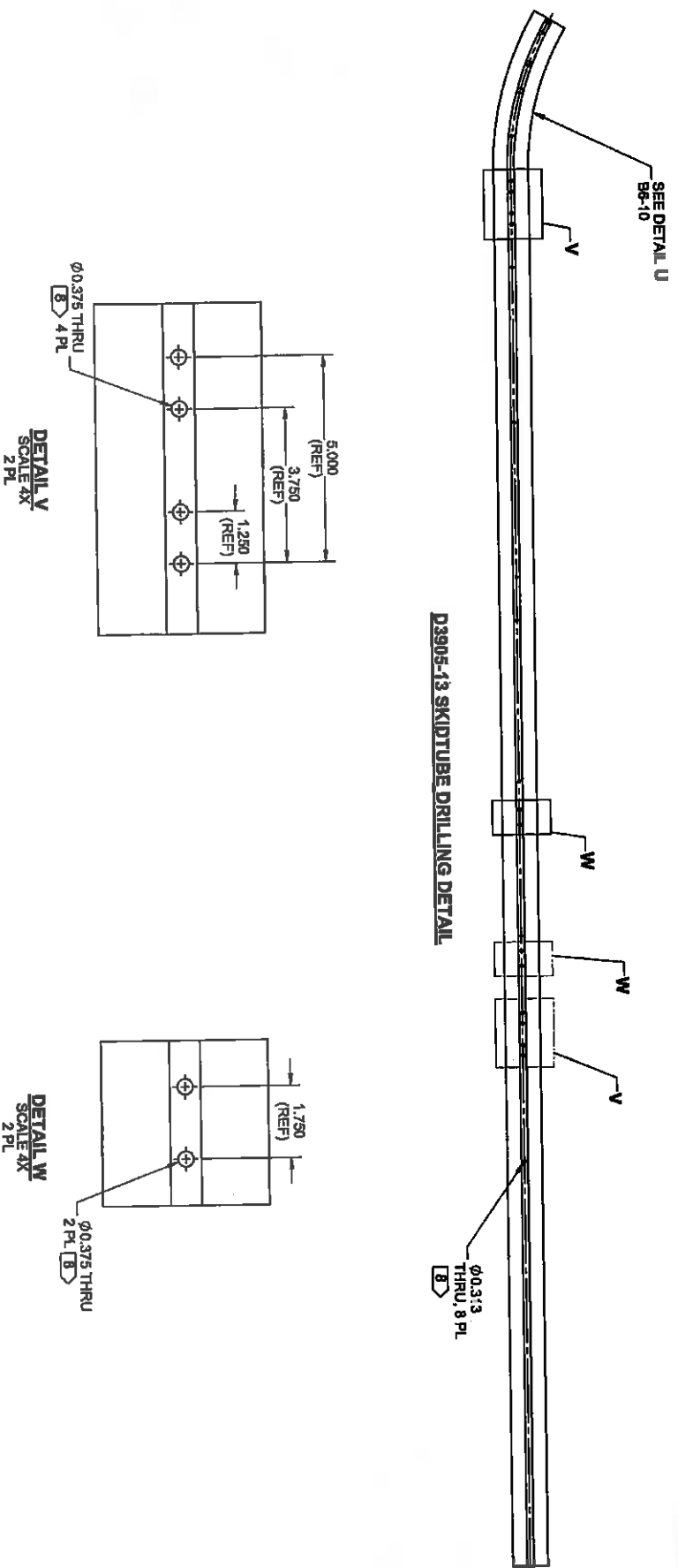
RELEASED
2017-05-08

APPROVED

DESIGN	A18	DART AEROSPACE USA, INC.	
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CHECKED	VS	REV. E	
MFG. APPR.	DD	D38905	
APPROVED	HS	TITLE	
DE APPR.	DS	A119 FLOAT SKIDTUBE ASSY	
DATE	17.03.13	SCALE	

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D3905-13 SKIDTUBE DRILLING DETAIL

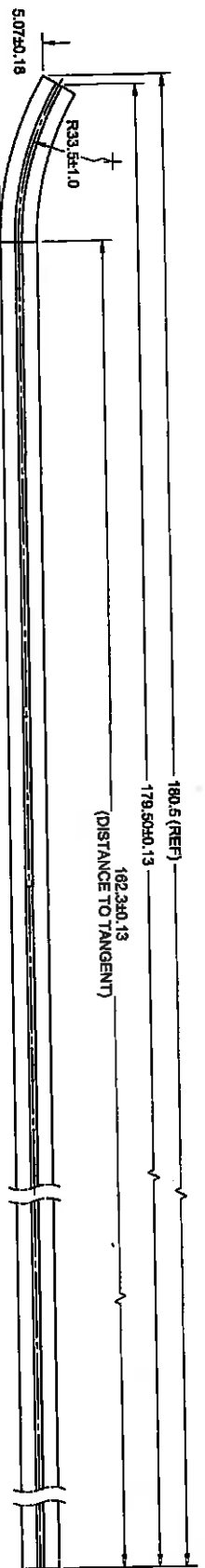


- NOTES:
- 1) MATERIAL: MAKE -13 DRILL DETAIL FROM -1 FWD BEND DETAIL
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER PART QSI 018 UNLESS OTHERWISE NOTED
 - 4) INTERFERENCES: UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY AT FINAL ASSEMBLY
 - 7) WEIGHT: N/A
 - 8) PICK UP ON PILOT HOLES

RELEASED
2017-05-08

APPROVED

DESIGN	AJS	DART AEROSPACE USA, INC.
DRAWN	WJK	ELIGIBLE OR
CHECKED	VS	REV. E
MFG. APPR.	DD	D3905
APPROVED	HS	SHEET 12 OF 14
DE APPR.	DS	SCALE
DATE	17.03.13	NTS



5.2380
5.07
4.890

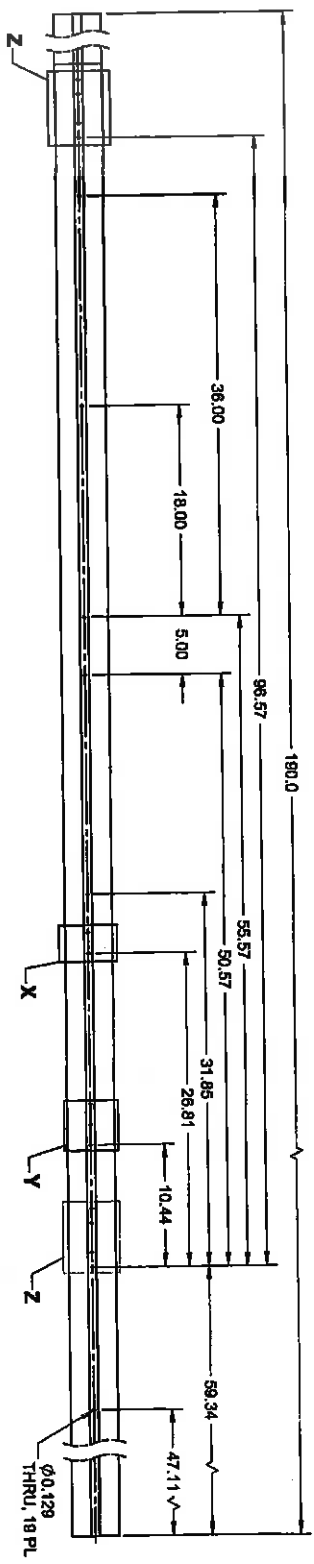
D3905-1 SKIDTUBE FWD BEND DETAIL

- NOTES:
- 1) MATERIAL: MAKE -1 FWD BEND DETAIL FROM -3 PILOT HOLE DETAIL
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER PART Q31.018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: .005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY AT FINAL ASSEMBLY
 - 7) WEIGHT: N/A
 - 8) DAMAGE TOLERANCE ON FWD BEND: THERE SHOULD BE NO VISIBLE WRINKLES IN THE BEND FROM THE GROUND TO A HEIGHT OF 2.5 INCHES ABOVE THE GROUND. IT IS ACCEPTABLE TO POLISH OUT GOUGES UP TO .020" DEEP IN THE BENT PORTION OF THE TUBE. A MAXIMUM REDUCTION IN DIAMETER OF 0.160" IS ACCEPTABLE IN THE BENT PORTION OF THE TUBE.

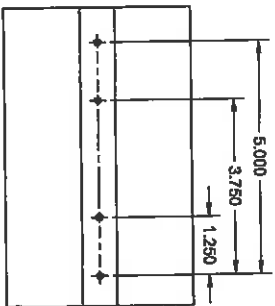
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2017-05-08
APPROVED

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DRAWN	WK	EUGENE, OR
CHECKED	VS	REV. E
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APPROVED	HS	SHEET 18 OF 14
DATE	DEC 1	SCALE
17.03.13		NTS

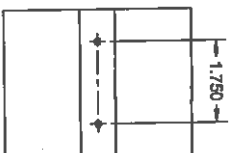
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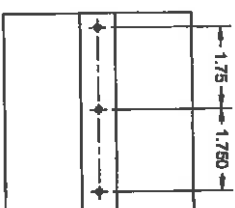
D3905-3 SKIDTUBE PILOT HOLE DETAIL



DETAIL Z
SCALE: 4X



DETAIL X
SCALE: 4X



DETAIL Y
SCALE: 4X

- NOTES:
- 1) MATERIAL: MAKE FROM D2600-1-190 EXTRUSION
 - 2) FINISH: N/A
 - 3) TOL BRANCES: PER DART OSI 019 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY AT FINAL ASSEMBLY
 - 7) WEIGHT: N/A

RELEASED
2017-05-08

APPROVED

DESIGN	ALS	DART AEROSPACE USA, INC.
DRAWN	WIK	ENGINEER
CHECKED	VS	
MFG. APPR.	DD	D3905
APPROVED	HS	
DE APPR.	DS	
DATE	17.03.13	

SHEET 14 OF 14
SCALE
NTS

inv
19 Jun 2019



WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

Date:

19-7178

Route update only

NCR No.

Job:

177744

Part No.

D19-646-043

DISPOSITION

Rework ☐
Scrap ☐
Use-as-is ☒

DEPARTMENT/PROCESS

Skid-tube ☒
Machining ☐
Large Fab ☐
Cross tube ☐
Small Fab ☐
Finishing ☐
Eng. (Non-AW) ☐
Prod. Eng. Coord. ☐
Rec/Store/Packaging ☐
Engineering ☐
Water Jet ☐
Supplier ☐
Quality ☐

Sequence #:

Date: 16/6/25

QTY Affected: 1

MRB (QSI042)

1N5P
172 GP 16/6/25

Description Work Order Deviation

Disposition

Aft bend is 5.125" Dwg min = 5.18"

Acceptable. Reduced height does not
increase float bending moments.

Completed By

GP 16/6/25

Lead hand / Supervisor

NTW
18-06-25

QC/BA Coordinator

30
9:30

JUN 25 2018

Root Cause

Operator ☐
Manufacturing Process ☐
Equip/Tooling ☐
Handling/Preservation ☐
Material ☒
Product Improvement ☐
Process Improvement ☐
Human Factors ☐

FAULT CATEGORY

Pressure/Forced ☐
Bending ☒
Crushing ☐
Cracks ☐
Crimp/Kink/Ripple/Wave/Twist ☐
Marks/Chatter ☐
Mislabeled ☐
Other/Details:

Contamination ☐
Misaligned/off center ☐
BOM/Route ☐
Broken/Damage/Defect ☐
Incomplete/Unclear Instructions ☐
Drill Holes ☐
Fit/Function ☐

Power Loss/Surge ☐
Folio/Program ☐
Grain Direction ☐
Weld ☐
Wrong Stock Pulled ☐
Out of Sequence ☐
Off-set/Set-up ☐

Positioned Wrong ☐
Outside Tolerance ☐
Drawing ☐
Finish ☐
Part Lost/Missing ☐
Misread ☐

Insurance\approved QA/NCRWO Rev J